

Samsung Medison, an affiliate of Samsung Electronics, is a global medical company founded in 1985. With a mission to bring health and well-being to people's lives, the company manufactures diagnostic ultrasound systems around the world across various medical fields. Samsung Medison has commercialized the Live 3D technology in 2001 and since being part of Samsung Electronics in 2011, it is integrating IT, image processing, semiconductor and communication technologies into ultrasound devices for efficient and confidence diagnosis.

CT-A35 V3.01 GI-FTW-141203-EN

S-Vue stands for Samsung smart transducer technology which supports broader bandwidth and higher sensitivity.



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# Leading the new standards

## Ultrasound system **ACCUVIX A35**



**SAMSUNG**



## Experience outstanding performance

As the pioneer in ultrasound and imaging, Samsung sets global standards in ultrasound systems. We focus on supporting more accurate, easier and faster diagnosis. Our new A35 system establishes new benchmarks in operational convenience with features such as EZ Exam™ and ElastoScan™. Furthermore, the A35 offers 23-inch LED ultrasound monitor, enriched 3D performance, increased detection rates, customizable interface and ergonomic design.

### Hybrid beamforming engine

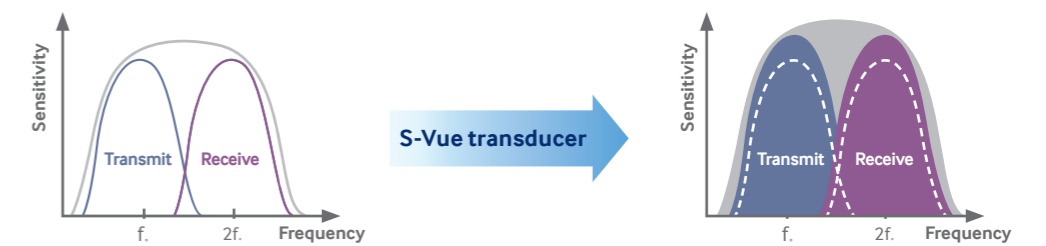
With enhanced H/W and newly added S/W engines, users can process data more accurately through optimized processing. This hybrid beamforming engine enables a more in-depth, more detailed scanning with a higher energy output.



### S-Vue transducer



The S-Vue transducer (CV1-8A, CA1-7A) provides broader bandwidth and higher sensitivity. This allows to deliver high image resolution even with technically challenging patients. In addition, the ergonomically designed and lightweight transducer enables users to experience less fatigue. Especially, CV1-8A is approximately 30% lighter than the conventional Samsung transducer.



\*Compared with the conventional Samsung transducers

# Uncompromised image quality

Sophisticated image processing technology detailing skin tone and facial features provides outstanding accuracy for users and memorable experiences for mothers. Our recent breakthroughs in lifelike images are displayed on the full HD LED ultrasound monitor, with superior color performance and special filtering that removes unwanted speckle and noise. Images are not only rendered with more life-like details on optimal fetal display, but also processed and stored noticeably easier.

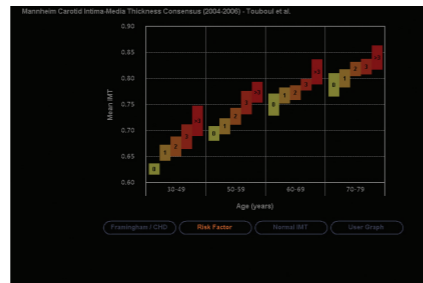
## 23-inch LED monitor

With the release of the 23-inch LED ultrasound monitor, the A35 introduces high-quality color image representation. The new, wider monitor provides superior performance over CRT and LCD monitors, delivering higher resolution for more accurate diagnosis.



## Auto IMT™

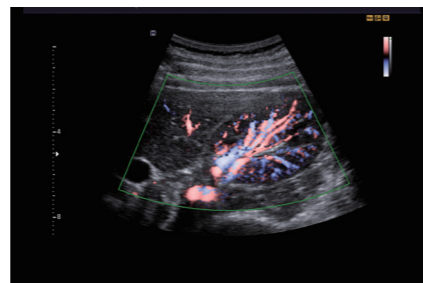
Auto IMT™ allows automatic Intra-Media Thickness measurement of both the near and far walls of the Common Carotid Artery for analyzing patients' risks of stroke and heart diseases. The simple operation helps to enhance exam productivity and increase patient throughput.



Auto IMT™ risk factor

## Enhanced DPDI

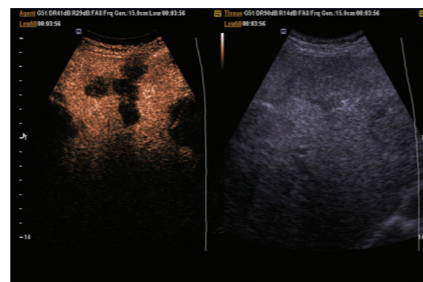
Enhanced DPDI, a color Doppler with greater sensitivity, can help to detect peripheral blood vessels. Its advanced Doppler enables accurate diagnosis when color detection is especially difficult.



Renal vessels of DPDI

## Low-MI (Contrast-Enhanced Ultrasound)

Low-MI is a technology that uses contrast agents when performing ultrasound scans. This technology processes reflected signals from contrast agents, which are stimulated by particular ultrasound pulses, and produces a unique sonogram with increased contrast. Exams are easier to perform by providing dual-live views.



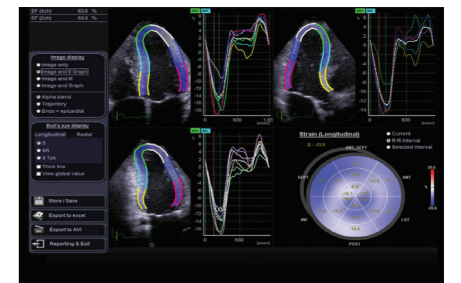
Liver mass



## 3 Plane Strain

3 Plane Strain is a quantitative assessment tool for global and segmental wall motion from three apical views and it shows peak longitudinal systolic strain in a bull's eye display.

- Comprehensive LV presentation
- Simultaneous chamber view with its segmental information
- Intuitive segmental strain values and Time to Peak



Strain

## TMAD

Speckle strain which is independent from the patient window.

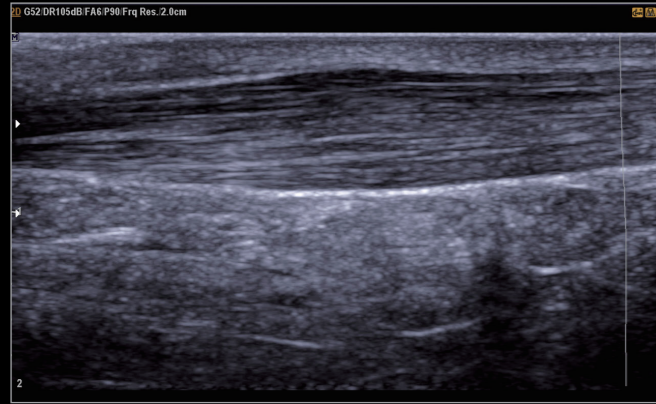
- Quick, simple, easy and robust
- Correlation and estimation with Ejection Fraction
- 2D speckle tracking in an angle-independent way



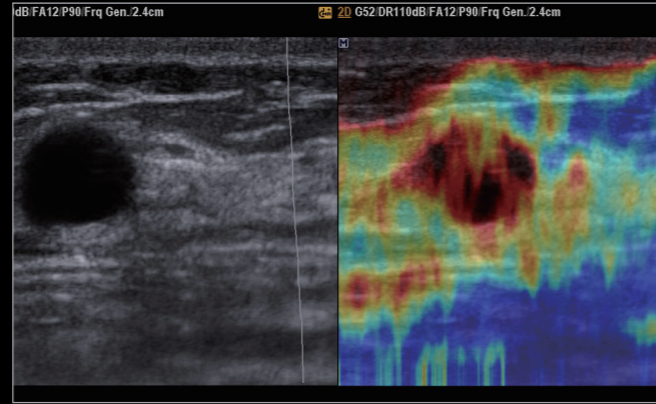
TMAD

# Achieve enhanced image

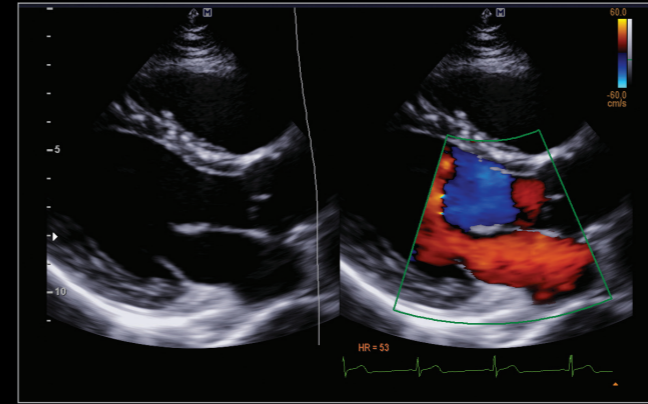
Our outstanding diagnostic systems rely on decent technologies to enhance ultrasound imaging. Thanks to improved and sharper contrast resolution, images are in higher quality making them easier to analyze. With advanced imaging construction, the A35 improves efficiency in imaging under all possible conditions.



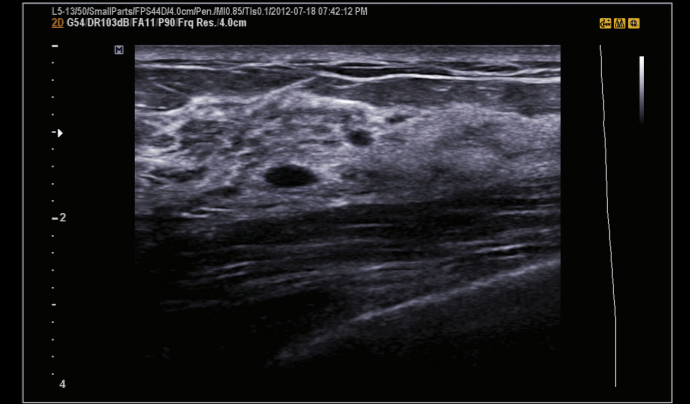
Achilles tendon



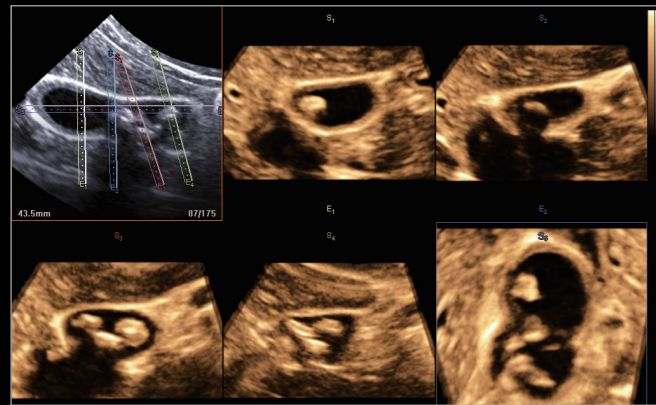
Breast ElastScan™



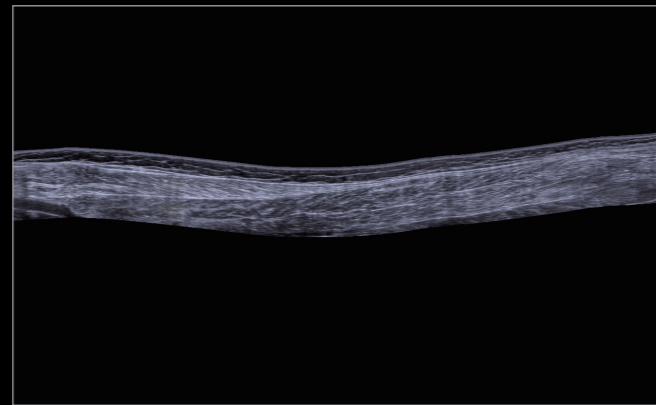
Color dual live view



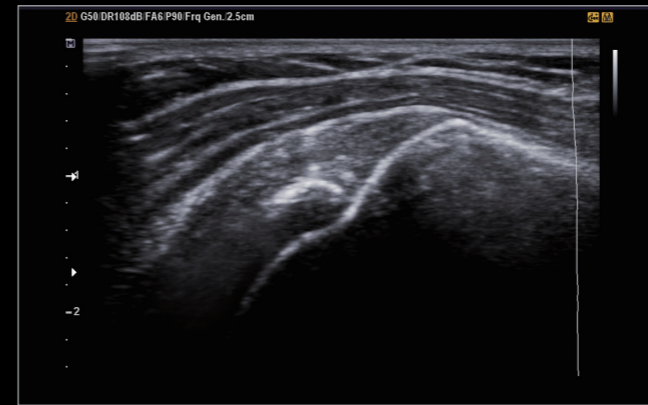
Fibroadenoma image with SCI™



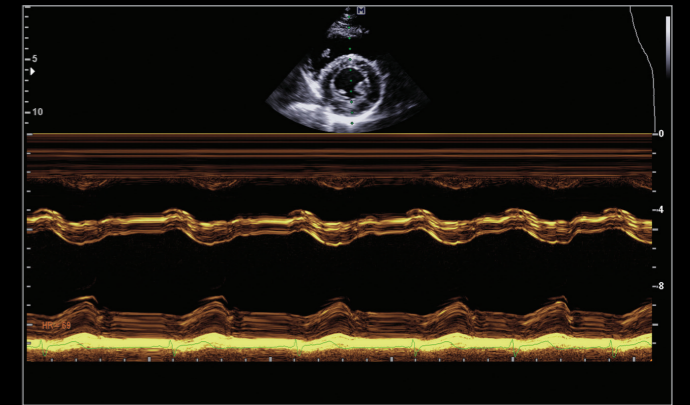
GB stones with 3D OVIX mode



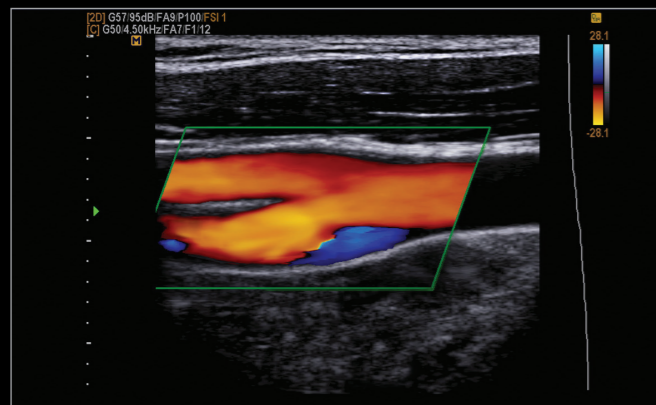
Gastrocnemius muscle of panoramic image



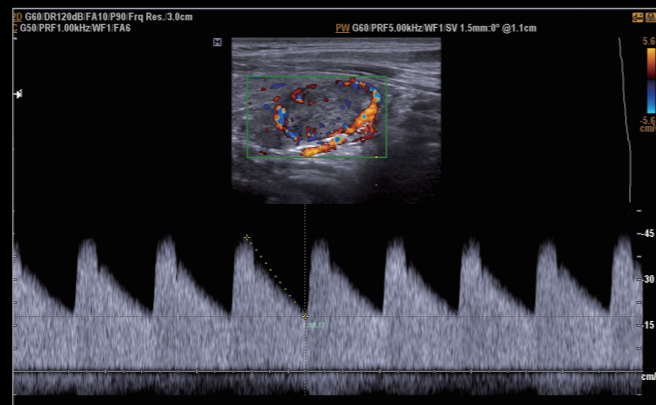
Calcific tendinopathy of Rotator cuff



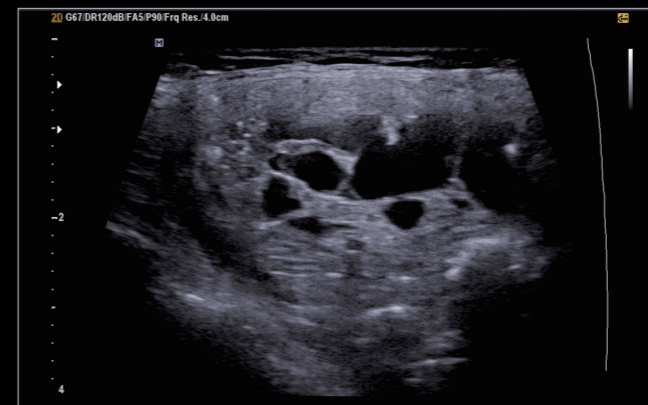
Short Axis view in M-mode\_2



CCA bifurcation of color



Thyroid adenoma PW Doppler



Thyroid multiple cystic nodule in trapezoidal mode



Shoulder rotator cuff

# Easier exams than ever

To ensure more comfortable and simplified testing environments, Samsung developed proprietary technology that gives users more customizable controls and semi-automated settings that makes tasks and operations easier to manage. Features such as EZ Exam™ transform multiple steps into a streamlined process at the touch of a button. Advanced detection technologies and innovative measurement tools also semi-automate tasks and facilitate trouble-free operation.

### All-New User Interface

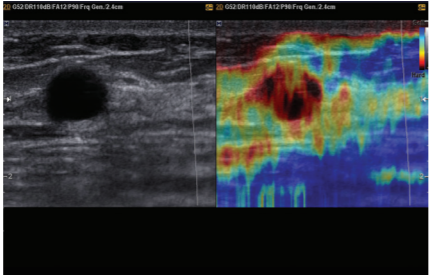
Improved preset menus and modes make testing easier by reducing multiple tasks. Independent settings for user preset and basic preset also support simple operation.



New preset menu of transducer dialog

### ElastoScan™

Helping to identify early detection of lesions and various other diseases, ElastoScan™ provides clinical information that conventional studies typically cannot detect.



Breast of ElastoScan™

### EZ Exam™

EZ Exam™ transforms frequently used step-by-step exams into a single, streamlined procedure.



EZ Exam™ Designer mode

### ElastoScan™ ECI

Allowing users to acquire ElastoScan™ images without compression, Thyroid ElastoScan™ ECI has an index for detecting the possibility of nodules.



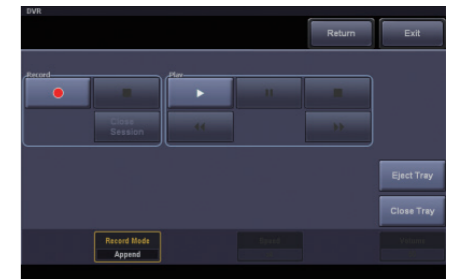


## Utilize time-saving technologies

The A35 relies on cutting-edge technology and streamlined imaging procedures in order to allow users to become more time-efficient. For instance, real-time USB/DVD recording is a thoughtful function that enables simultaneous scanning and recording. The A35 also has upgraded color technology, customizable preset ranges, and advanced imaging parameters that further improve workflow efficiency.

### ADVR™

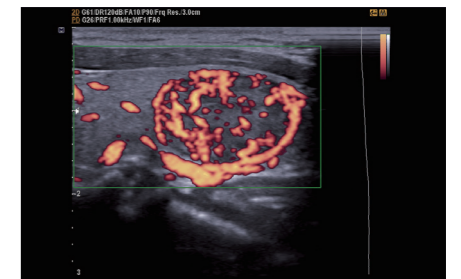
ADVR™, integrated DVD (720x480) and USB (Full HD 1920 x 1080), permits simultaneous scanning and recording, creating an environment that allows users to revisit recorded areas.



Touch-screen menu of ADVR™

### Color Opt Flow™

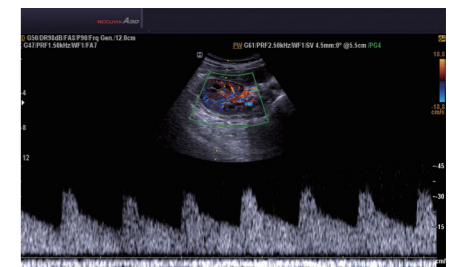
The exclusive color technology supports quick color image representations of blood flow. Upgraded capabilities include changing slow, moderate or fast color speeds. The preset ranges allow faster evaluation of optimized blood flow images, depending on the application.



Thyroid adenoma with Color Opt Flow™

### QuickScan™

By enabling automatic optimization of key imaging parameters with the touch of a button, QuickScan™ improves workflow efficiency.



Renal artery PW with QuickScan™

## Employ ergonomic design

With mobility and easy access in mind, we made the A35 to be easily transported, whether at bedside, private clinics or medical labs. The intuitive control panel can be adjusted easily to user's preference, and the monitor arm can move front to back as well as side-to-side. Our advanced ergonomic design lets medical experts focus more on patients.

### Flexible control panel

Panel can be adjusted side-to-side and up-and-down for user comfort.

- Height: adjustable +180mm
- Rotation: 60°, adjustable +/- 30°



### Articulated monitor arm

The monitor's controls provide unprecedented flexibility and user comfort, adjusting both up and down and side to side for personalized performance.

- Height: adjustable +260mm (1415~1760 mm)
- Rotation: adjustable +/- 50° from center, others +/- 130° from center
- Tilt: adjustable +45°/ -15° from center
- Front/Back: adjustable +339.4 mm



### Swivel lock

A single pedal controls a swivel lock mechanism to conveniently secure console in place and accommodates efficient movement during a variety of scanning procedures.



# Optimized transducer set configuration

## Curved array transducers



- CA1-7A**
  - Application : abdomen, obstetrics, gynecology, contrast
  - Field of view : 70°
- CA2-8A**
  - Application : abdomen, obstetrics, gynecology
  - Field of view : 58°
- SC1-6**
  - Application : abdomen, obstetrics, gynecology, Contrast
  - Field of view : 60.61°
- C2-61C**
  - Application : abdomen, obstetrics, gynecology
  - Field of view : 57.5°
- CF4-9**
  - Application : vascular, pediatric
  - Field of view : 92°

## Volume transducers



- CV1-8A**
  - Application : abdomen, obstetrics, gynecology,
  - Field of view : 72°
- V2-6**
  - Application : abdomen, obstetrics, gynecology
  - Field of view : 87°
- V4-8**
  - Application : abdomen, obstetrics, gynecology
  - Field of view : 76°
- V5-9**
  - Application : obstetrics, gynecology, urology
  - Field of view : 150.6°

## Linear array transducers



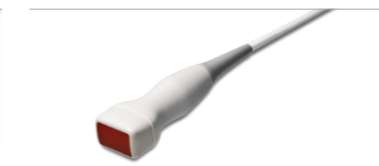
- LA3-16A**
  - Application : small parts, vascular, musculoskeletal
  - Field of view : 38.4mm
- LA3-14A**
  - Application : small parts, vascular, musculoskeletal
  - Field of view : 50mm
- L5-13/50**
  - Application : musculoskeletal, small parts, vascular
  - Field of view : 50mm
- L4-7**
  - Application : abdomen, Musculoskeletal, small parts, vascular
  - Field of view : 44.16mm
- L5-13IS**
  - Application : musculoskeletal, small parts, vascular
  - Field of view : 38.4mm

## Endocavity transducers



- EC4-9IS**
  - Application : obstetrics, gynecology, urology
  - Field of view : 148.9°
- VR5-9**
  - Application : obstetrics, gynecology, urology
  - Field of view : 150.3°
- EA2-11B**
  - Application : obstetrics, gynecology, urology
  - Field of view : 150.3°

## Phased array transducer



- P2-4BA**
  - Application : abdomen, cardiac, TCD
  - Field of view : 90°



- L7-16IS**
  - Application : musculoskeletal, small parts, vascular
  - Field of View : 38.4mm
- LS6-15**
  - Application : Musculoskeletal
  - Field of View : 25.6mm

## CW transducers



- DP2B**
  - Application : cardiac
- CW2.0**
  - Application : cardiac
- CW4.0**
  - Application : cardiac
- CW6.0**
  - Application : cardiac